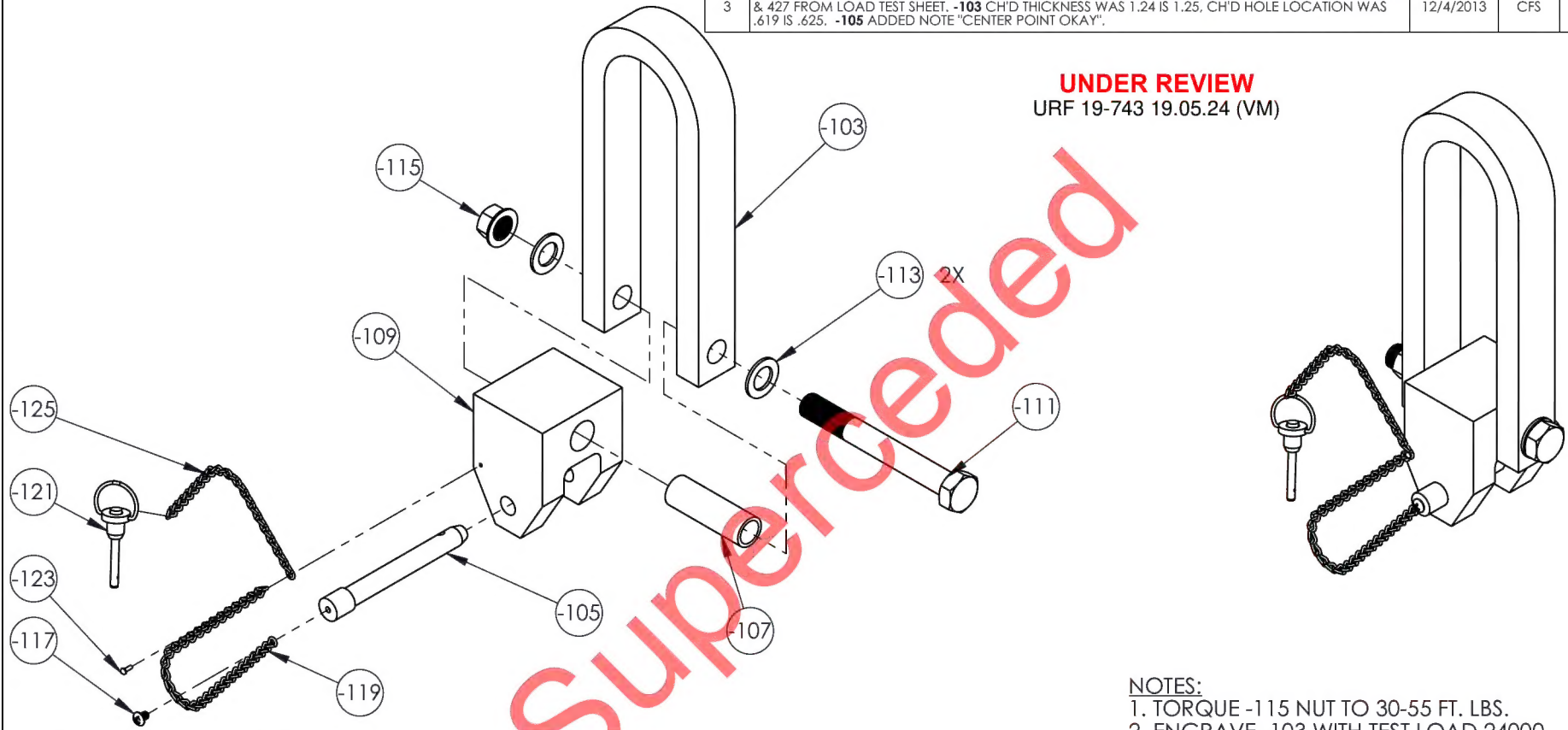


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CH'D PART No.s TO REFLECT THOSE OF BELL PART No.s.	10/14/2010	WP	DW
2	REORGANIZED BOM, AND PROPERLY NUMBERED PARTS, DELETED NOTE 3 & 4, CH'D -103 ENGRAVE NOTE, CH'D RC FROM 38-42 PER S.E. CH'D -109 RC FROM 30-34 TO MATCH -103 PER RW.	12/6/2011	RJC	SE
2A	CH'D NOTE 1, CH'D -117 P/N FROM 90272A238, CH'D -121 P/N FROM NAS1333S6S100 ON SHEET 1. ADDED -105 MISSING Ø.194 DIMENSION PER G.E.	2/15/2012	RJC	GE
3	UPDATED SHEET FORMATS ADDED EXPLODED VIEW TO SHEET 1. REMOVED USED ON MODEL BELL 407 & 427 FROM LOAD TEST SHEET. -103 CH'D THICKNESS WAS 1.24 IS 1.25, CH'D HOLE LOCATION WAS .619 IS .625. -105 ADDED NOTE "CENTER POINT OKAY".	12/4/2013	CFS	GE

UNDER REVIEW
URF 19-743 19.05.24 (VM)



- NOTES:
1. TORQUE -115 NUT TO 30-55 FT. LBS.
2. ENGRAVE -103 WITH TEST LOAD 24000 LBS., SWL 12000 LBS., DATE TESTED & T/N.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-103	1	STRAP	4140	3/4 X 1-1/4 X 19 (SAME AS RB T102140-103)	2
			-105	1	PIN	4140	Ø5/8 X 4-3/4	3
			-107	1	SLEEVE	4130	Ø7/8 X 2-5/8 (SAME AS RB T102140-107)	4
			-109	1	CLEVIS	4140	2-3/8 X 2-3/4 X 3-1/2	5
		B/O	-111	1	HEX HEAD CAP SCREW	Gr. 8 CAD PLATED	5/8-18 UNF X 5 (NAS6610-64)	1
		B/O	-113	2	FLAT WASHER	CAD PLATED STEEL	Ø5/8 I.D. (MS20002C10)	1
		B/O	-115	1	FLANGE NUT	CAD PLATED STEEL	5/8-18 UNF (NAS1291-10)	1
		B/O	-117	1	PHILLIPS MACH. SCREW	PLATED STEEL	#10-24 UNC X 1/4 (MS35206-267)	1
		B/O	-119	1	CHAIN	BRASS	1/0 SIZE X 10 LONG (NAS1455B00-10)	1
		B/O	-121	1	BALL LOCK PIN	PLATED STEEL	Ø3/16 X 1 USABLE (NAS1333S6S100)	1
		B/O	-123	1	DRIVE SCREW	PLATED STEEL	Ø.100 X 1/4 (MS21318-15)	1
		B/O	-125	1	CHAIN	BRASS	1/0 SIZE X 6 LONG (NAS1455B00-6)	1

RED BARN MACHINE

LIFTING TOOL

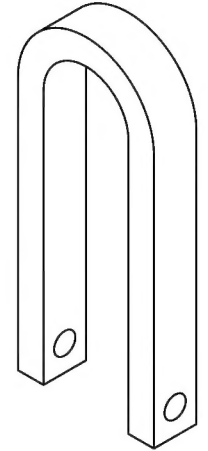
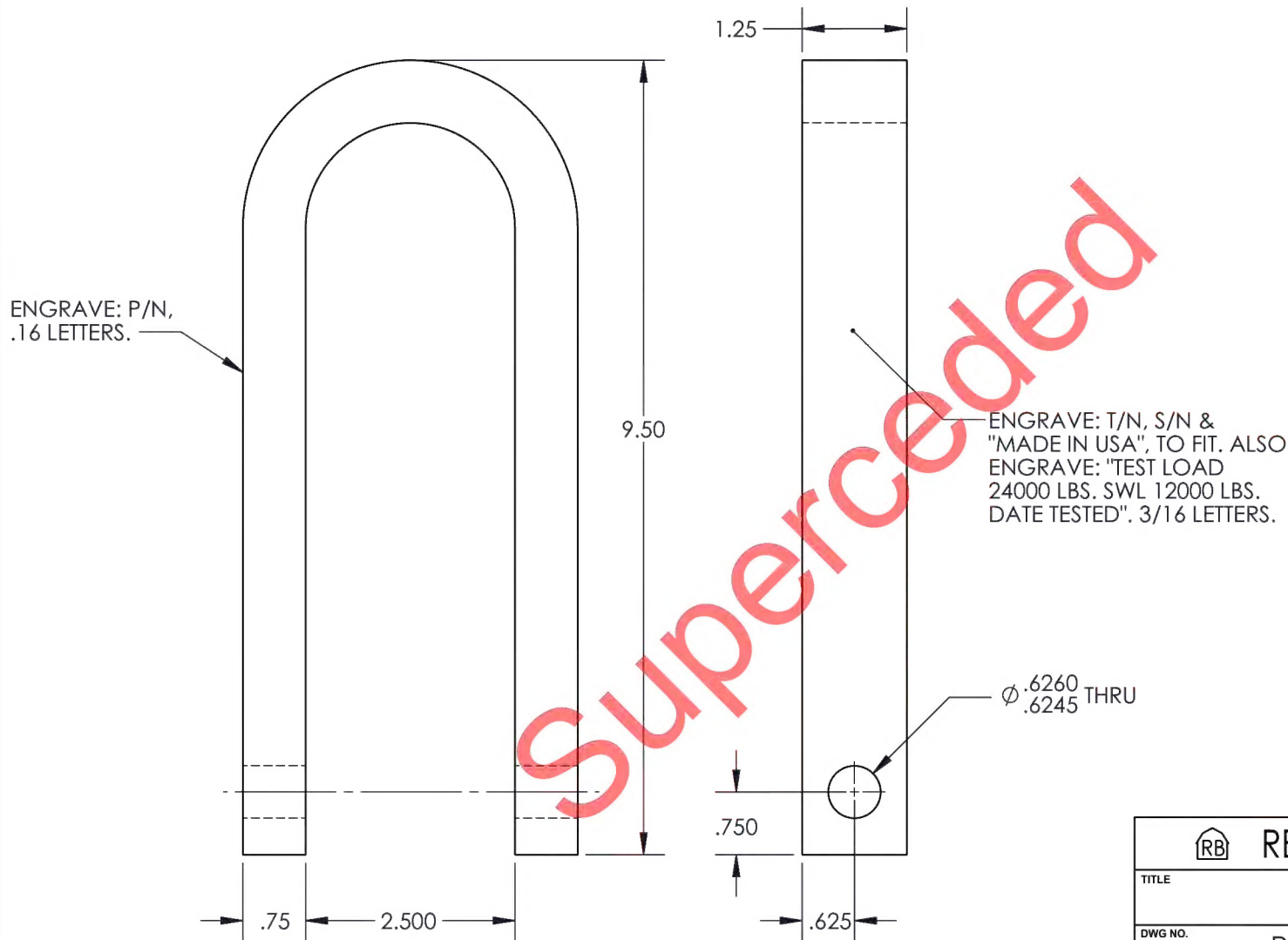
RB T102137-101

REV
3

MAT'L	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED <i>D Weil</i>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	HEAT TREAT
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FINISH
	SPEC
	USED ON MODEL
	BELL 222, 230, 429, 430
SCALE 1:4	DATE 4/25/2010
	SHEET 1 OF 6

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
2	CH'D -103 ENGRAVE NOTE, CH'D RC FROM 38-42 PER S.E.	12/6/2011	RJC	SE
3	-103 CH'D THICKNESS WAS 1.24 IS 1.25, CH'D HOLE LOCATION WAS .619 IS .625.	12/4/2013	CFS	GE



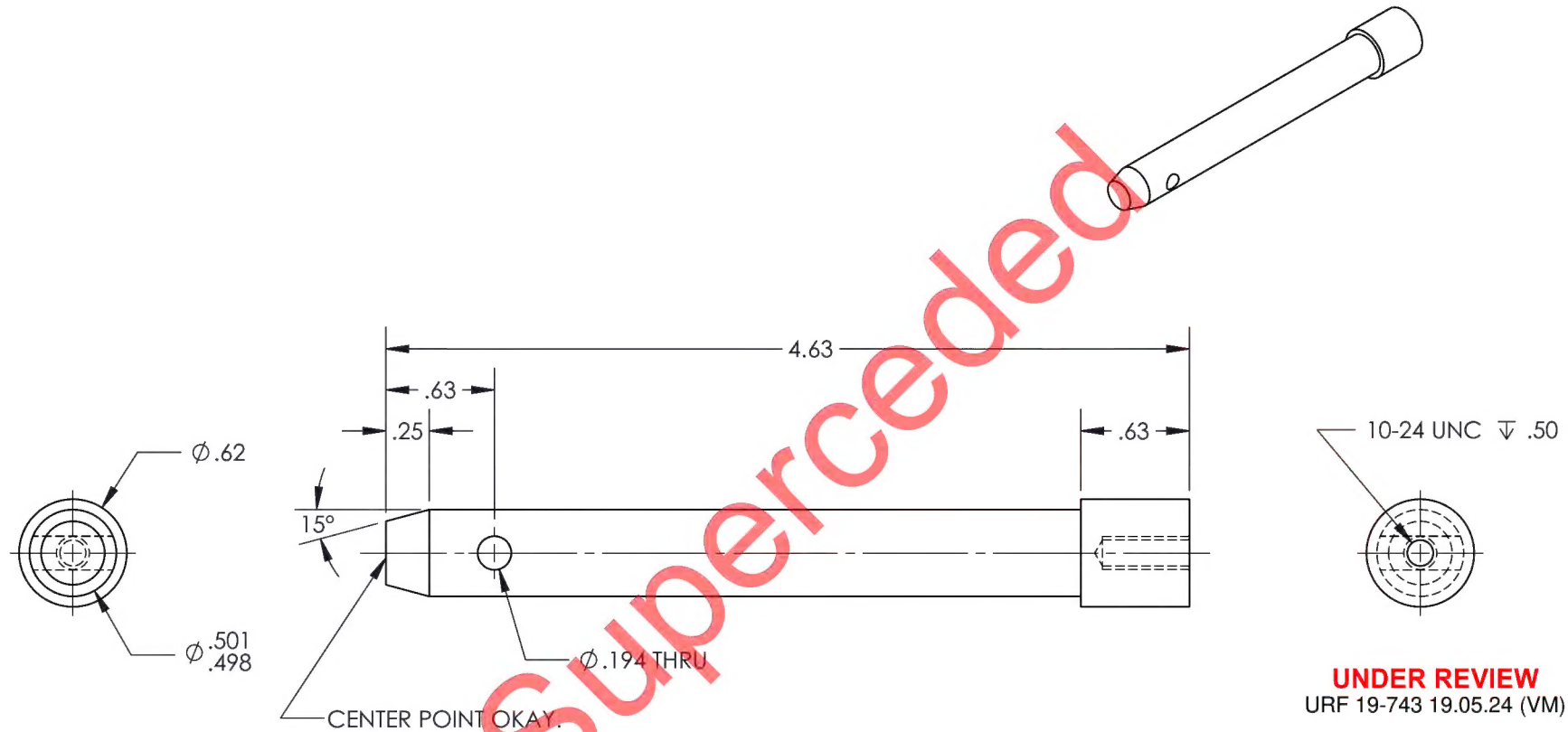
UNDER REVIEW
URF 19-743 19.05.24 (VM)

(-103)
STRAP

RED BARN MACHINE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-101-103	REV 3
MAT'L 4140	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT RC 32-38
.XX ± .01	FINISH CAD PLATE YELLOW
.X ± .1	SPEC QQ-P-416F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL 222, 230, 429, 430
SCALE 1:2	DATE 4/25/2010
SHEET 2 OF 6	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
2A	ADDED -105 MISSING Ø.194 DIMENSION PER G.E.	12/4/2013	RJC	GE
3	-105 ADDED NOTE "CENTER POINT OKAY".	12/4/2013	CFS	GE



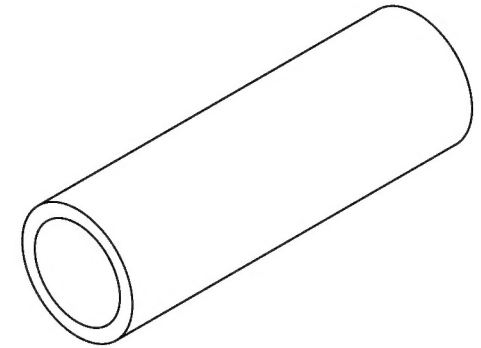
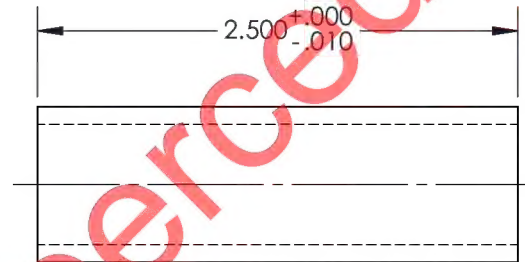
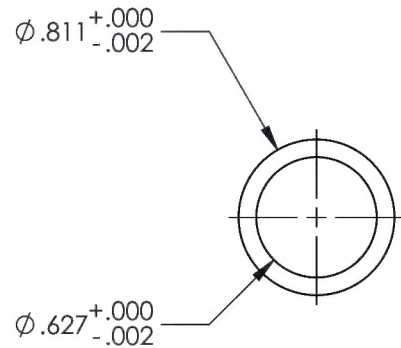
UNDER REVIEW
URF 19-743 19.05.24 (VM)

-105
PIN

RED BARN MACHINE	
LIFTING TOOL	
DWG NO.	RB T102137-101-105
MAT'L 4140	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:1	DATE 4/25/2010
SHEET 3 OF 6	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

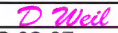


Supercoded

UNDER REVIEW
URF 19-743 19.05.24 (VM)

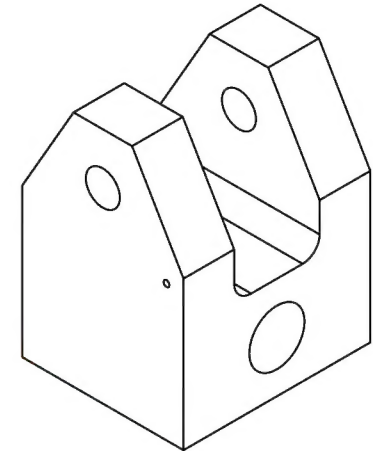
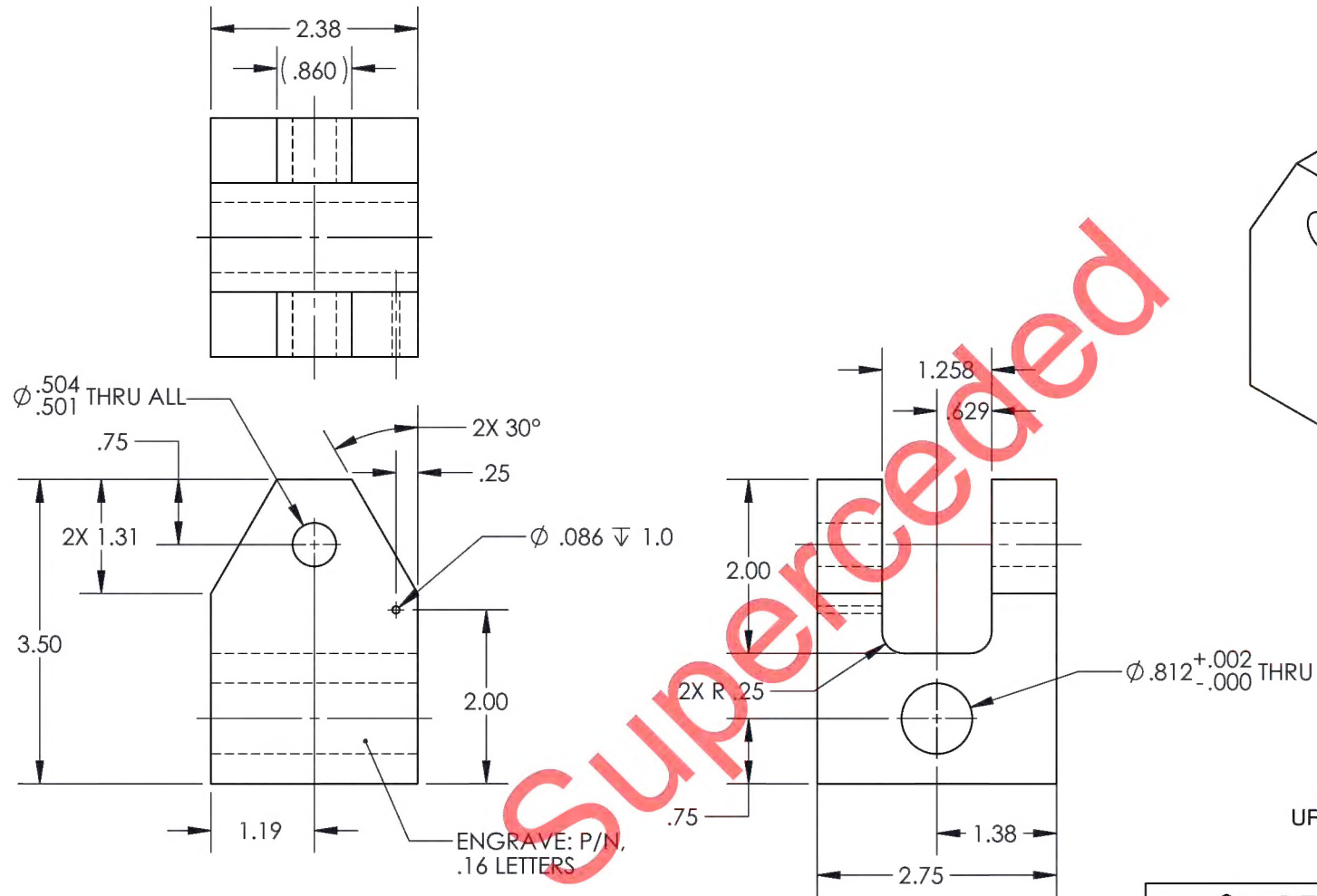
(-107)
SLEEVE

 RED BARN MACHINE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-101-107	REV 3
MAT'L 4130	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:1	DATE 4/25/2010
SHEET 4 OF 6	

APPROVED 
HEAT RC 32-37
FINISH CAD PLATE YELLOW
SPEC QQ-P-416F, TYPE II, CLASS II
USED ON MODEL BELL 222, 230, 429, 430

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
2	CH'S -109 RC FROM 30-34 TO MATCH -103 PER RW.	12/6/2011	RJC	SE



UNDER REVIEW
URF 19-743 19.05.24 (VM)

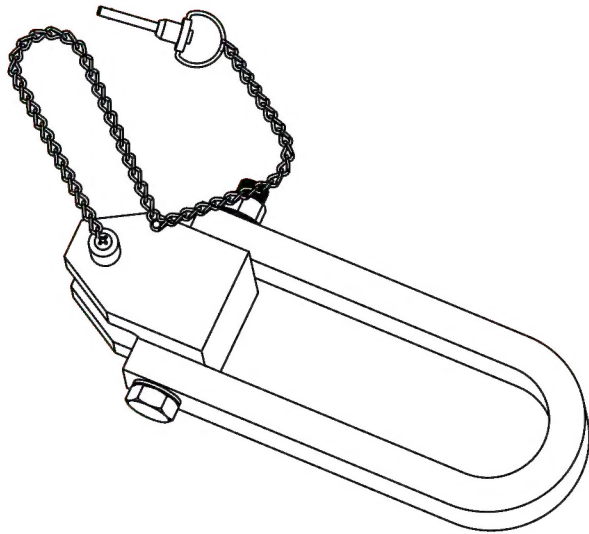
(-109)
CLEVIS

RED BARN MACHINE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-101-109	REV 3
MAT'L 4140	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT RC 32-38
.XX ± .01	FINISH CAD PLATE YELLOW
.X ± .1	SPEC QQ-P-416F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL 222, 230, 429, 430
SCALE 1:2	DATE 4/25/2010
SHEET 5 OF 6	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
3	REMOVED USED ON MODEL BELL 407 & 427 FROM LOAD TEST SHEET.	12/4/2013	CFS	

FIRST ARTICLE WEIGHT TEST



RED BARN MACHINE
190 S. DANEBO AVE., EUGENE OR. 97402
(541)344-9953; fax (541)344-3863
e-mail; sales@redbarn.net

INSPECTION & TESTING PROCEDURES FOR THE
RB T102137-101 LIFT TOOL. THIS ASSEMBLY SHOULD
BE INSPECTED BEFORE EACH USE.
REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED
OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE LIFTING TOOL IN AN APPROPRIATE FIXTURE USE BALL LOCK PIN TO LOCK INTO FIXTURE.
2. APPLY 24,000 lbs. , FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT TOOL, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR _____
TESTER _____
S.N. _____
DATE _____

UNDER REVIEW
URF 19-743 19.05.24 (VM)

 RED BARN MACHINE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-101	REV 3
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL BELL 222, 230, 429, 430